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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/841,958	04/25/2001	Ronaldus Maria Aarts	NL 000249	6052
24737 75	90 10/06/2004		EXAMI	NER
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			WOO, STELLA L	
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER	
BRIARCEITT	WANOK, NT 10510		2643	~
•			DATE MAILED: 10/06/2004	. /

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/841,958	AARTS ET AL.			
Office Action Summary	Examiner	Art Unit			
	Stella L. Woo	2643			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on	<u>_</u>				
2a) This action is FINAL . 2b) ⊠ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-6 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 25 April 2001 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the order at the content of the correction of the c	☑ accepted or b)☐ objected to define accepted or b)☐ objected to define acceptance. See the drawing(s) is object is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4, 6. 		ate ratent Application (PTO-152)			

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DETAILED ACTION

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a).

- "Microfiche Appendices" were accepted by the Office until March 1, 2001.)
- (e) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

The specification lacks section headings.

1. The disclosure is objected to because of the following informalities: The specification should not contain references to specific claims (e.g., see page 1, lines 2 and 20).

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Appropriate correction is required.

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to *a single paragraph* on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over (US 6,343,130) in view of Klayman (US 6,285,767).

Regarding claim 1, Yamazaki discloses a bandwidth extension device (stereophonic sound processing system; Figure 8) comprising an input (input signal from sound source; Fig. 8), filter means (stereophonic filter means 21/22), creating means (stereophonic sound processors ½ generates stereophonic sound signals (Abstract), characterized in that the bandwidth extension device comprises at least a first and a second signal path (signal path through sound process 1 and signal path through sound process 2; Figure 8), each having filter means and creating means (sound process 1 includes a filter and creating means (21), sound process 2 includes a filter and

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creating means 22), analyze means (CPU; col. 4, lines 53-54), means for selecting the adapted signal which corresponds most with the input signal (the adapted signal in accordance with a desired factor is selected by CPU via switch 23; col. 3, lines 18-20; col. 4, lines 44-60).

Yamazaki differs from claim 1 in that it does not specify creating the adapted with a lower frequency part than the input signal and a summing and weighting means. However, Klayman teaches the desirability of processing an input signal by enhancing the lower frequency part (via sound enhancement system 104) and summing and weighting the signals (via adder 820; Figure 8) in order to compensate for the lack of lower frequencies and to create a more realistic and robust listening experience (col. 1, line 5- col. 2, line 58). Moreover, Klayman suggests the use of a lower frequency sound enhancement 104 in addition to a surround sound audio processing system (optional audio processing system 106; col. 7, lines 1-16, 52-58) such that it would have been obvious to an artisan of ordinary skill to incorporate the use a system which enhances lower frequencies, as taught by Klayman, within the surround-sound system of Yamazaki in order to create a more realistic and robust listening experience.

Regarding claim 2, in Yamazaki, note switching means 23.

Regarding claim 3, in Yamazaki, CPU controls the stereophonic filter means 21 and 22 (col. 4, lines 51-54).

Regarding claim 4, in Klayman, note mixer 1114 (Fig. 11).

Regarding claim 5, in Klayman, the signal source can be a stereo receiver, radio, compact disc player, theater system, etc. (col. 7, lines 17-28).

Regarding claim 6, Klayman provides for time delay means (col. 29, lines 34-36).

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Conclusion

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5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Suzuki shows another sound processing system for distributing low frequency signal components.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stella L. Woo whose telephone number is (703) 305-4395. The examiner can normally be reached on Monday-Tuesday, Thursday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz can be reached on (703) 305-4708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stella L. Woo Primary Examiner.

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